Figure 1

Figure 1 (continued)

Figure 2

Spectral data in ethanol

(s: acidified with 1% trifluoroacetic acid; b: basic with 1% triethylamine)

λ_a: Absorbance maximum

 λ_f : Fluorescence maximum

η_f: Fluorescence quantum yield

	Structure	λ_a / nm	$\lambda_{\rm f}$ / nm	η _ι / %
1 NK 50	O (CH ₂) ₃ COOH CH ₃ + C ₂ H ₅ C ₂ H ₅	561	585	48
, 2 NK 51	H ₃ C CH ₃ CCOOH H ₃ C CH ₃ H ₃ C CH ₃ H ₃ C CH ₃	536	563	92
3 NK 54	CI CI CI CI CI CI CI CI CI	584	606	35
4 NK 56	H ₅ C ₂ C ₂ H ₅ (CH ₂) ₃ COOH	566, s 622, b	650, b	40
5 NK 57	CI CI (CH ₂) ₃ COOH O N CH ₃ CH ₃ CI CH ₃ CH ₃ CCH ₃ CCCH ₃ CCCH ₃ CCCCC CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	624	650	88

Figure 2 (continued)

6 NK 58	H ₅ C ₂ -K ₃ -C ₂ H ₅	562	586	46
7 NK 59	H ₃ C CH ₃ CH ₃ C ₃ H ₅ C ₃ H ₅	535	565	92
8 NK 60	CI CI CI COOH CI CI CI COOH C1 CI	584	605	34
9 NK 61	CH ₃ Cl CH ₃ CH	625	655	89
10 NK 62	H ₅ C ₂ N O COOH	565, s 623, b	650, b	40
11 NK 63	H ₃ C ₂ + C ₂ H ₃	615	680	10
12 NK 64	H ₃ C COOH	614	677	9

Figure 2 (continued)

				
13 NK 65	H ₃ C + H ₃ C CH ₃ CH ₃	618	650	66
14 NK 66	H ₃ C + H ₃ C CH ₃ CH ₃ CH ₃	618	648	65
15 NK 76	H ₅ C ₂ H ₅ C ₂ H ₅	563	586	46
16 NK 77	H ₅ C ₂ H ₅ C ₂ H ₅ C ₂ H ₅	561	585	48
17 NK 78	CI C	619	644	69
18 NK 136	N-(CH ₃) ₃ COOH	512, b	530, b	85
19 NK 106	-OHOCH ₃	530	556	20

Figure 2 (continued)

20 NK 80	СН ₃)5СООН	645, b	700 , ь	16
21 NK 81	0 (CH ₂);COOH CH ₃ C ₂ H ₅	520, b	545, b	80
22 NK 82	CI CI (CH ₂) ₃ COOH CI (CH ₂) ₃ COOH CH ₂ SO ₃ H CH ₂ SO ₃ H CH ₂ SO ₃ H CH ₃ C C ₂ H ₃ C ₂ H ₃	624	. 644	89
23 NK 83	H ₂ N	496	519	80
24 NK 107	CH ₃)sCOOH	552	•	0,5
25 NK 84	(CH ₂) ₃ COOH CH ₃ C ₂ H ₅ C ₃ H ₅	573	595	92

Figure 2 (continued)

		· · · · · · · · · · · · · · · · · · ·		
26 NK 85	CH ₃ (CH ₂) ₂ COOH CH ₃ (CH ₃) ₂ COH CH ₃ (CH ₃)	601	627	88
27 NK 86	H ₃ C _N (CH ₃) ₃ COOH CH ₃ CH ₃	575	600	45
28 NK87	H ₃ C N CH ₃ CH ₃ CH ₃	580	-	0
29 NK 88	СН ₃) ₃ СООН	570, b	-	0
30 NK 89	(CH ₂) ₃ COOH (CH ₅) ₅ COOH	640	-	0
31 NK 90	H ₅ C ₂ -N ₂ -C ₂ H ₅ C ₂ H ₅	565	590	55
32 NK 108	H ₃ C (CH ₂) ₃ COOH C-N-CH ₃ CH ₃	538	560	90

Figure 2 (continued)

33 NK 91	C C C C (CH ₂) ₃ COOH (CH ₃) ₅ COOH	575	605	35
34 NK 92	CI C	585	615	30
35 NK 109	C1 C	562	594	80
36 NK 93	Br Br Br Br CCH2)3COOH H5C2H3 C2H3	581	610	30
37 NK 94	H ₅ C ₂ -N ₂ -C ₂ H ₅ C ₂ H ₅	558	580	48
38 NK 95	H ₅ C ₂ H ₅ C ₂ H ₅	558	580	48

Figure 2 (continued)

39 NK 110	H ₃ C (CH ₂) ₃ COOH (CH ₃) (CH ₃)	533	560	87
40 NK 96	CI CI (CH ₂) ₃ COOH CI CI CH ₃ CH ₃ C ₃ H ₃ C ₃ H ₃	570	597	45
41 NK 99	H ₅ C ₂ H ₅ C ₂ H ₅	556	578	35
42 NK 102	H ₅ C ₂ N C ₂ H ₅ C ₂ H ₅	562	590	45
43 NK 103	H ₅ C ₂ H ₅ C ₂ H ₅ C ₂ H ₅	562	590	45
44 NK 104	О ₂ N О ₂ N СН ₃) ₃ СООН СН ₃ + С ₂ H ₅	557	575	1

Figure 2 (continued)

45 NK 105		CH2)rCOOH	573	596	92
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Figure 3

Spectral data in ethanol

λ_a: Absorbance maximum

 λ_f : Fluorescence maximum

 η_{f} : Fluorescence quantum yield

	Structure	λ_{a} / nm	$\lambda_{\rm f}/{\rm nm}$	η _f /%
46 NK 47	H ₅ C ₂ -N ₂ -C ₂ H ₅ C ₂ H ₅ C ₂ H ₅ C ₂ H ₅	563	588	47
47 NK 48	C ₂ H ₅ C ₂ H ₅ C ₂ H ₅ CH ₃ CH ₃ CH ₄ C ₂ H ₅ C ₂ H ₅	536	565	92
48 NK 52	$C1$ $C2H_5$ C_2H_5 C_2H_5 C_2H_5 C_2H_5 C_2H_5	585	607	34

Figure 3 (continued)

49 NK 53	CI C	626	648	87
50 NK 55	H ₅ C ₂ -N ₁ -C ₂ H ₅	562, s 623, b	650, b	40
51 NK 67	H ₅ C ₁ + C ₁ H ₅ C ₁ H ₅ C ₁ H ₅	561	585	46
52 NK 68	H ₅ C ₂ + C ₂ H ₅ C ₂ H ₅	563	585	47
53 NK 70	H ₅ C ₂ -N-C ₂ H ₅ C ₂ H ₅	563	584	46
54 NK 71	H ₅ C ₂ H ₄ OH C ₂ H ₄ OH C ₂ H ₄ OH C ₂ H ₅ C ₂ H ₅	559	583	45
55 NK 97	H ₅ C ₂ H ₄ SO ₃ H C ₂ H ₄ SO ₃ H C ₂ H ₄ SO ₃ H + C ₂ H ₅ C ₂ H ₅	562	586	47

Figure 3 (continued)

56 NK 98	H ₅ C ₂ -N-C ₂ H ₅ C ₁₈ H ₃₇ CH ₃ + C ₂ H ₅ C ₂ H ₅	563	586	48
57 NK 100	H ₅ C ₂	562	585	48
58 NK 101	H ₅ C ₂ -H ₅ C ₂ H ₅ C ₂ H ₅ C ₂ H ₅	562	585	48

Figure 4

	Structure
59 NK 69	C ₂ H ₅
60 NK 72	C ₂ H ₅ C ₂

Figure 5

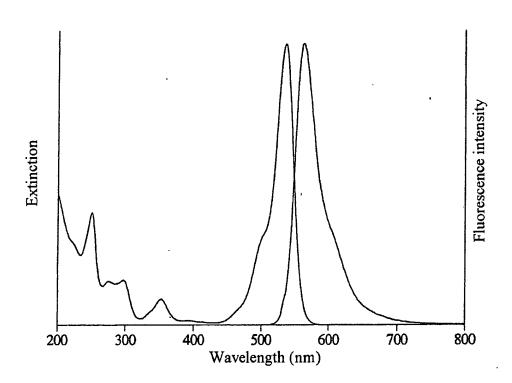


Figure 6

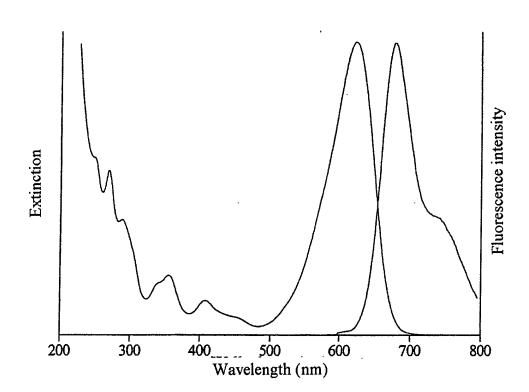


Figure 7

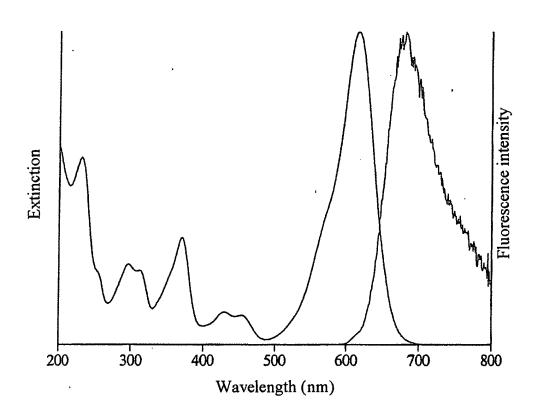


Figure 8

